# QC-ABSTRACT

**Name of Work:-** Improvements to Roads Drains and Other Maintenance Behind "KSCMF" Building and Surrounding a in ward no 14 Bagalagunte

| Sl No. | Item | Quantity As Per BOQ | Required No's of tests | Actual No's of tests | Tests |
|---|---|---|---|---|---|
| 1 | PCC 1:3:6 | 123.46 Cum | 1 | 1 | Cement |
| | | | | | Sand, Aggregates |
| 2 | Steel | 12.50 Tonne | 1 | 1 | - |
| 3 | M20 | 198.95 Cum | 7 | 7 | Concrete Cube Compressive Strength |
| 4 | Slab 100mm | 617.31 Sqm | 1 | 1 | Compressive strength |

| | | |
|---|---|---|
| Cubes | 0-5 $m^3$ | 1set |
| | 6-15 $m^3$ | 2set |
| | 16-30 $m^3$ | 3set |
| | 31-50 $m^3$ | 4 set |
| | Add 1set for every 50 Cum | |

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Job No : CACE/BBMP/NVR/W.O.75/2021-22

Date: 05.01.2022

## TEST REPORT ON CEMENT

**Client** : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

**Agency** : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

**Name of Work** : Improvements to Roads Drains and Other Maintenance Behind "KSCMF" Building and Surrounding area in ward no 14 Bagalagunte

**Sample ID:** : Cement (Zuari 53 grade OPC)

**Sample Supplied by:** : AGENCY

**Date of Manufacture:** : December - 2021

**Date of Testing** : 03.01.2022 to 05.01.2022

| Sl.No | Descriptions | Test Method as per IS | Test Result | Requirements as per IS: 269:2015 |
|---|---|---|---|---|
| 1 | a) Initial Setting Time | IS-4031 (Part - 5):1988(RA 2014) | 140 Minutes | Not Less than 30 Minutes |
| | b) Final Setting Time | IS-4031 (Part - 5):1988(RA 2014) | 350 Minutes | Not More than 600 Minutes |
| 2 | Soundness | IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method | 1 mm | Not more than 10 mm |
| 3 | Standard Consistency | IS-4031 (Part -4) | 30.00% | - |

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Job No.: CACE/BBMP/NVR/W.O.75/2021-22 Date : 05.01.2022

## TEST REPORT ON FINE AGGREGATES (SAND)

**Client** :**Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

**Agency** : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

**Name of Work** : Improvements to Roads Drains and Other Maintenance Behind "KSCMF" Building and Surrounding area in ward no 14 Bagalagunte

**Date of Testing** : 05.01.2022

**IS Code** : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

**Material** : Sand Total Wt. of Aggregates in gms **1000**

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Requirements as per IS 383:2016 Spec.Limits For Zone-II |
|---|---|---|---|---|---|
| 10 | 0 | 0 | 0 | 100 | 100 |
| 4.75 | 84 | 8.40 | 8.40 | 91.6 | 90-100 |
| 2.36 | 119 | 11.90 | 20.30 | 79.7 | 75-100 |
| 1.18 | 182 | 18.20 | 38.50 | 61.5 | 55-90 |
| 600 Micron | 265 | 26.50 | 65.00 | 35.0 | 35-59 |
| 300 Micron | 185 | 18.50 | 83.50 | 16.5 | 8-30 |
| 150 Micron | 136 | 13.60 | 97.10 | 2.9 | 0-10 |

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Job No.: CACE/BBMP/NVR/W.O.75/2021-22

Date : 05.01.2022

## TEST REPORT ON COARSE AGGREGATES

**Client** :**Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

**Agency** : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

**Name of Work** : Improvements to Roads Drains and Other Maintenance Behind "KSCMF" Building and Surrounding area in ward no 14 Bagalagunte

Date of Testing : 05.01.2022

**IS Code** : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Requirements as per IS 383:2016 |
|---|---|---|---|---|---|
| 40 | 0 | 0 | 0 | 100 | 100 |
| 20 | 189 | 3.8 | 3.8 | 96.2 | 95-100 |
| 10 | 2836 | 56.7 | 60.5 | 39.5 | 25-55 |
| 4.75 | 1752 | 35.0 | 95.5 | 4.5 | 0-10 |

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Job No.: CACE/BBMP/NVR/W.O.75/2021-22 Date : 05.01.2022

## TEST REPORT ON COARSE AGGREGATES

**Client** : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

**Agency** : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

**Name of Work** : Improvements to Roads Drains and Other Maintenance Behind "KSCMF" Building and Surrounding area in ward no 14 Bagalagunte

Date of Testing : 05.01.2022

**IS Code** : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Requirements as per IS 383:2016 |
|---|---|---|---|---|---|
| 80 | 0 | 0 | 0 | 100 | 100 |
| 40 | 198 | 1.32 | 1.32 | 98.68 | 95-100 |
| 20 | 8326 | 55.51 | 56.83 | 43.17 | 30-70 |
| 10 | 3120 | 20.80 | 77.63 | 22.37 | 10-35 |
| 4.75 | 2836 | 18.91 | 96.53 | 3.47 | 0-5 |

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Job No.: CACE/BBMP/NVR/W.O.75/2021-22 Date : 05.01.2022

## TEST REPORT ON FINE AGGREGATES (SAND)
## IS 2116-1980

**Client** : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

**Agency** : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

**Name of Work** : Improvements to Roads Drains and Other Maintenance Behind "KSCMF" Building and Surrounding area in ward no 14 Bagalagunte

**Date of Testing** : 05.01.2022

**Material** : Sand(Masonry) Total wt. of aggregates in gms = **1000**

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits as per IS 2116-1980 |
|---|---|---|---|---|---|
| 4.75 | 0 | 0.00 | 0.00 | 100.0 | 100 |
| 2.36 | 14 | 1.40 | 1.40 | 98.6 | 90-100 |
| 1.18 | 35 | 3.50 | 4.90 | 95.1 | 70-100 |
| 600 Micron | 89 | 8.90 | 13.80 | 86.2 | 40-100 |
| 300 Micron | 255 | 25.50 | 39.30 | 60.7 | 5-70 |
| 150 Micron | 498.6 | 49.86 | 89.16 | 10.8 | 0-15 |

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Job No.: CACE/BBMP/NVR/W.O.75/2021-22

Date : 06.01.2022

## TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

**Client** : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

**Agency** : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

**Name of Work** : Improvements to Roads Drains and Other Maintenance Behind "KSCMF" Building and Surrounding area in ward no 14 Bagalagunte

**Steel Dia/Length** : 8mm, 10mm, 12mm" TMT"

**Reference to BIS codes** : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

**Date of test** : 06.01.2022

| S.No | Brand | Nominal size (dia in mm) | Mass per meter (kg/meter) | TENSILE STRENGTH | | | |
|---|---|---|---|---|---|---|---|
| | | | | 0.20 % proof stress/ yield stress ($N/mm^2$) | Tensile strength ($N/mm^2$) | TS/YS ratio | Elongation , percent on gauge length |
| 1 | TMT | 8 | 0.396 | 549 | 635 | 1.16 | 14 |
| 2 | TMT | 10 | 0.618 | 556 | 649 | 1.17 | 16.5 |
| 3 | TMT | 12 | 0.889 | 568 | 656 | 1.15 | 18 |

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Job No.: CACE/BBMP/NVR/W.O.75/2021-22 Date: 17.01.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

**Agency** : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

**Name of the work** : Improvements to Roads Drains and Other Maintenance Behind "KSCMF" Building and Surrounding area in ward no 14 Bagalagunte

**Sample ID** : Cement Concrete for Raft

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{20}$

**Compressive Strength as on** : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 10.01.2022 | 17.01.2022 | 8.128 | 336.4 | 14.95 |
| 2 | 10.01.2022 | 17.01.2022 | 8.136 | 350.2 | 15.56 |
| 3 | 10.01.2022 | 17.01.2022 | 8.145 | 349.7 | 15.54 |

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Job No.: CACE/BBMP/NVR/W.O.75/2021-22 Date: 07.02.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| **Client** | **: Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore. |
| **Agency** | **: Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore. |
| **Name of the work** | : Improvements to Roads Drains and Other Maintenance Behind "KSCMF" Building and Surrounding area in ward no 14 Bagalagunte |
| **Sample ID** | : Cement Concrete for Raft |
| **Size of cubes** | : 150mmx150mmx150mm |
| **Cross Sectional Area** | : 22500 $mm^2$ |
| **Technical Reference** | : IS: 516-1959 (Reaffirmed 2008) |
| **Grade of Concrete** | : $M_{20}$ |
| **Compressive Strength as on** | : 28th day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 10.01.2022 | 07.02.2022 | 8.174 | 508.2 | 22.59 |
| 2 | 10.01.2022 | 07.02.2022 | 8.165 | 512.3 | 22.77 |
| 3 | 10.01.2022 | 07.02.2022 | 8.128 | 489.6 | 21.76 |

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Job No.: CACE/BBMP/NVR/W.O.75/2021-22 Date: 17.01.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| **Client** | **: Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore. |
| **Agency** | **: Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore. |
| **Name of the work** | : Improvements to Roads Drains and Other Maintenance Behind "KSCMF" Building and Surrounding area in ward no 14 Bagalagunte |
| **Sample ID** | : Cement Concrete for Raft |
| **Size of cubes** | : 150mmx150mmx150mm |
| **Cross Sectional Area** | : 22500 $mm^2$ |
| **Technical Reference** | : IS: 516-1959 (Reaffirmed 2008) |
| **Grade of Concrete** | : $M_{20}$ |
| **Compressive Strength as on** | : 7th day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 10.01.2022 | 17.01.2022 | 8.146 | 365.3 | 16.24 |
| 2 | 10.01.2022 | 17.01.2022 | 8.135 | 346.5 | 15.40 |
| 3 | 10.01.2022 | 17.01.2022 | 8.128 | 328.9 | 14.62 |

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Job No.: CACE/BBMP/NVR/W.O.75/2021-22

Date: 07.02.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

**Agency** : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

**Name of the work** : Improvements to Roads Drains and Other Maintenance Behind "KSCMF" Building and Surrounding area in ward no 14 Bagalagunte

**Sample ID** : Cement Concrete for Raft

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{20}$

**Compressive Strength as on** : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 10.01.2022 | 07.02.2022 | 8.136 | 525.2 | 23.34 |
| 2 | 10.01.2022 | 07.02.2022 | 8.165 | 516.8 | 22.97 |
| 3 | 10.01.2022 | 07.02.2022 | 8.148 | 508.2 | 22.59 |

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Job No.: CACE/BBMP/NVR/W.O.75/2021-22 Date: 18.01.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

**Agency** : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

**Name of the work** : Improvements to Roads Drains and Other Maintenance Behind "KSCMF" Building and Surrounding area in ward no 14 Bagalagunte

**Sample ID** : Cement Concrete for Raft

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{20}$

**Compressive Strength as on** : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 11.01.2022 | 18.01.2022 | 8.184 | 515.2 | 22.90 |
| 2 | 11.01.2022 | 18.01.2022 | 8.169 | 524.6 | 23.32 |
| 3 | 11.01.2022 | 18.01.2022 | 8.152 | 510.6 | 22.69 |

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Job No.: CACE/BBMP/NVR/W.O.75/2021-22

Date: 08.02.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| Client | : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore. |
| Agency | : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore. |
| Name of the work | : Improvements to Roads Drains and Other Maintenance Behind "KSCMF" Building and Surrounding area in ward no 14 Bagalagunte |
| Sample ID | : Cement Concrete for Raft |
| Size of cubes | : 150mmx150mmx150mm |
| Cross Sectional Area | : 22500 $mm^2$ |
| Technical Reference | : IS: 516-1959 (Reaffirmed 2008) |
| Grade of Concrete | : $M_{20}$ |
| Compressive Strength as on | : 28th day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 11.01.2022 | 08.02.2022 | 8.146 | 345.3 | 15.35 |
| 2 | 11.01.2022 | 08.02.2022 | 8.152 | 339.6 | 15.09 |
| 3 | 11.01.2022 | 08.02.2022 | 8.138 | 330.5 | 14.69 |

Note:

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For CIVIL AIM CONSULTANTS & ENGINEERS

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ಬ ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ. ಬಿ.ಬಿ.ಎಂ.ಪಿ
ಬೆಂಗಳೂರು 560073

Authorised Signatory


No.01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah layout, Nagasandra, Bangalore - 560 073.

PH.No: 9591618639 GST IN:29CNWPD9510K1ZB Email:civilaimconsultants@gmail.com


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# CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

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Job No.: CACE/BBMP/NVR/W.O.75/2021-22 Date: 17.01.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

**Agency** : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

**Name of the work** : Improvements to Roads Drains and Other Maintenance Behind "KSCMF" Building and Surrounding area in ward no 14 Bagalagunte

**Sample ID** : Cement Concrete for Wall

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{20}$

**Compressive Strength as on** : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 11.01.2022 | 17.01.2022 | 8.184 | 516.2 | 22.94 |
| 2 | 11.01.2022 | 17.01.2022 | 8.169 | 524.5 | 23.31 |
| 3 | 11.01.2022 | 17.01.2022 | 8.152 | 511.2 | 22.72 |

Note:

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For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/NVR/W.O.75/2021-22 Date: 07.02.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

**Agency** : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

**Name of the work** : Improvements to Roads Drains and Other Maintenance Behind "KSCMF" Building and Surrounding area in ward no 14 Bagalagunte

**Sample ID** : Cement Concrete for Wall

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{20}$

**Compressive Strength as on** : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 11.01.2022 | 07.02.2022 | 8.146 | 345.3 | 15.35 |
| 2 | 11.01.2022 | 07.02.2022 | 8.152 | 339.6 | 15.09 |
| 3 | 11.01.2022 | 07.02.2022 | 8.138 | 330.5 | 14.69 |

Note:

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Job No.: CACE/BBMP/NVR/W.O.75/2021-22 Date: 17.01.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| **Client** | **: Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore. |
| **Agency** | **: Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore. |
| **Name of the work** | : Improvements to Roads Drains and Other Maintenance Behind "KSCMF" Building and Surrounding area in ward no 14 Bagalagunte |
| **Sample ID** | : Cement Concrete for Wall |
| **Size of cubes** | : 150mmx150mmx150mm |
| **Cross Sectional Area** | : 22500 $mm^2$ |
| **Technical Reference** | : IS: 516-1959 (Reaffirmed 2008) |
| **Grade of Concrete** | : $M_{20}$ |
| **Compressive Strength as on** | : 7th day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 11.01.2022 | 17.01.2022 | 8.184 | 515.2 | 22.90 |
| 2 | 11.01.2022 | 17.01.2022 | 8.169 | 524.6 | 23.32 |
| 3 | 11.01.2022 | 17.01.2022 | 8.152 | 510.6 | 22.69 |

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Job No.: CACE/BBMP/NVR/W.O.75/2021-22 Date: 07.02.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

**Agency** : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

**Name of the work** : Improvements to Roads Drains and Other Maintenance Behind "KSCMF" Building and Surrounding area in ward no 14 Bagalagunte

**Sample ID** : Cement Concrete for Wall

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{20}$

**Compressive Strength as on** :28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 11.01.2022 | 07.02.2022 | 8.146 | 346.3 | 15.39 |
| 2 | 11.01.2022 | 07.02.2022 | 8.152 | 339.4 | 15.08 |
| 3 | 11.01.2022 | 07.02.2022 | 8.138 | 331.2 | 14.72 |

Note:

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For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/NVR/W.O.75/2021-22 Date: 17.01.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

**Agency** : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

**Name of the work** : Improvements to Roads Drains and Other Maintenance Behind "KSCMF" Building and Surrounding area in ward no 14 Bagalagunte

**Sample ID** : Cement Concrete for Wall

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{20}$

**Compressive Strength as on** : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 11.01.2022 | 17.01.2022 | 8.184 | 515.2 | 22.90 |
| 2 | 11.01.2022 | 17.01.2022 | 8.169 | 524.6 | 23.32 |
| 3 | 11.01.2022 | 17.01.2022 | 8.152 | 510.6 | 22.69 |

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ಬಾಗಲಗುಂಟೆ. ಜಿ.ಜಿ.ಎಂ.ಪಿ
ಬೆಂಗಳೂರು-560073

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory


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Job No.: CACE/BBMP/NVR/W.O.75/2021-22 Date: 07.02.2022

# TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

**Agency** : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

**Name of the work** : Improvements to Roads Drains and Other Maintenance Behind "KSCMF" Building and Surrounding area in ward no 14 Bagalagunte

**Sample ID** : Cement Concrete for Wall

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{20}$

**Compressive Strength as on** : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 11.01.2022 | 07.02.2022 | 8.146 | 345.3 | 15.35 |
| 2 | 11.01.2022 | 07.02.2022 | 8.152 | 339.6 | 15.09 |
| 3 | 11.01.2022 | 07.02.2022 | 8.138 | 330.5 | 14.69 |

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Job No.: CACE/BBMP/NVR/W.O.75/2021-22 Date: 19.01.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

**Agency** : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

**Name of the work** : Improvements to Roads Drains and Other Maintenance Behind "KSCMF" Building and Surrounding area in ward no 14 Bagalagunte

**Sample ID** : Cement Concrete for Wall

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{20}$

**Compressive Strength as on** : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 13.01.2022 | 19.01.2022 | 8.146 | 365.3 | 16.24 |
| 2 | 13.01.2022 | 19.01.2022 | 8.135 | 348.2 | 15.48 |
| 3 | 13.01.2022 | 19.01.2022 | 8.128 | 328.9 | 14.62 |

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Job No.: CACE/BBMP/NVR/W.O.75/2021-22 Date: 09.02.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

**Agency** : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

**Name of the work** : Improvements to Roads Drains and Other Maintenance Behind "KSCMF" Building and Surrounding area in ward no 14 Bagalagunte

**Sample ID** : Cement Concrete for Wall

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{20}$

**Compressive Strength as on** : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 11.01.2022 | 09.02.2022 | 8.136 | 526.3 | 23.39 |
| 2 | 11.01.2022 | 09.02.2022 | 8.165 | 516.3 | 22.95 |
| 3 | 11.01.2022 | 09.02.2022 | 8.148 | 509.3 | 22.64 |

Note:

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ಆ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
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ಬೆಂಗಳೂರು-560೦

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Job No.: CACE/BBMP/NVR/W.O.75/2021-22 Date: 15.02.2022

## PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Contractor : **Sri. Narayanappa Venkata Reddy,** Contractor, Bangalore.

Name of Work : Improvements to Roads Drains and Other Maintenance Behind "KSCMF" Building and Surrounding area in ward no 14 Bagalagunte

No.of Sample Tested : 03

Date of Testing : 15.02.2022

Techinical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : $M_{20}$

| Sl. No. | Dia of Core D (mm) | Height of Core H (mm) | Core Wt (Kg) | Density of Core (kg / $m^3$) | H / D | Correction factor (Based on H/D) | Failure Load (kN) | Core Strength ( $N/mm^2$) | Correction Factor for the Dia. (Strength of the Core x 1.08) | Corrected Cylinder Compressive Strength ($N/mm^2$) | Equivalent Cube Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 50.00 | 80.00 | 0.369 | 2349.13 | 1.60 | 0.957 | 34.50 | 17.57 | 18.98 | 18.16 | 22.70 |
| 2 | 50.00 | 85.00 | 0.378 | 2264.87 | 1.70 | 0.968 | 33.90 | 17.27 | 18.65 | 18.04 | 22.55 |
| 3 | 50.00 | 80.00 | 0.364 | 2317.30 | 1.60 | 0.957 | 33.10 | 16.86 | 18.21 | 17.42 | 21.77 |

**Note:**

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ಬೆಂಗಳೂರು-560073

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